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☐	L6	WO-9425602-A1.did.	1
		DB=PGPB,USPT,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
☐	L5	L4 and HCV	2
☐	L4	Simmonds P.in.	6
		DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
☐	L3	L2	20
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☐	L2	L1 and ISCOM	29
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#4	Search **ISCOM and HCV** Limits: **Entrez Date to 1999/11/19**	07:10:07	0
#2	Search **ISCOMATRIX** Limits: **Entrez Date to 1999/11/19**	07:09:29	3
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□ **1:** Nature. 1988 Mar 17;332(6161):287-8.

nature Links

The iscom antigen-presenting system.

Morein B.

Department of Virology, National Veterinary Institute, Uppsala,
Sweden.

The immunostimulating complex, or iscom, provides an
effective means of presenting antigens to the immune
system. Vaccines for influenza, hepatitis B and AIDS are in
the offing.

PMID: 3347272 [PubMed - indexed for MEDLINE]

Related Links

Potentiation of the immune response
by immunization with antigens in
defined immunostimulating physical form [1987]

The new generation of recombinant
viral subunit vaccines. [Curr Opin Biotechnol. 1996]

The iscom: an immunostimulating
system.   [Immunol Lett. 1990]

Adenovirus vectored vaccines.
[Dev Biol Stand. 1994]

Induction of protective immunity
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model: comparison of conventional
and iscom vaccines. [J Gen Virol. 1997]

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1: J Ultrastruct Mol Struct Res. 1989 Dec;102(3):240-8.   Links

Quaternary structure of the immunostimulating complex (iscom).

Ozel M, Hoglund S, Gelderblom HR, Morein B.

Robert Koch-Institute of the Federal Health Office, Berlin, Federal Republic of Germany.

Proteins of either HIV-1, hepatitis B, or rabies virus were incorporated with the adjuvant substance Quil A and cholesterol into the immunostimulating complex: iscom. Formation and symmetry of this regular complex were analyzed by electron microscopy. Micellar structures with a diameter of about 12 nm, occasionally with a 7-nm stain-filled center, were formed in a 0.03% water suspension of Quil A. Cavities or holes appeared in the smooth structures of cholesterol upon the addition of Quil A, and after mixing Quil A and cholesterol 1:1 fragile and flattened structures of matrix were produced with a diameter of about 40 nm. By freeze-drying the matrix was preserved as a cage-like, isometric particle. Stable iscom particles composed of Quil A, cholesterol, and selected viral proteins had an approximate diameter of 32 nm. The particles had an uniform, cage-like structure, exhibiting icosahedral symmetry, irrespective of the viral proteins incorporated. Tilting experiments and rotational image analysis indicated that the iscoms were composed of 20 morphological subunits assembled in a pentagonal dodecahedron with a hole on each of the 12 pentagonal faces. The symmetrical shape of the iscom might explain both its remarkable stability and its capacity to efficiently present antigens to the immune system.

PMID: 2634709 [PubMed - indexed for MEDLINE]

Related Links

Influenza virus ISCOMs: biochemical characterization.   [Vaccine. 1988]

Pseudo-ternary phase diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by the lipid-film hydration method.   [Int J Pharm. 2004]

The requirement of lipids for the formation of immunostimulating complexes (iscoms).   [Biotechnol Appl Biochem. 1988]

On the structure of immune-stimulating saponin-lipid complexes (iscoms).   [Biochim Biophys Acta. 1991]

A comparison of pseudo-ternary diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by lipid-film hydration and dialysis.   [J Pharm Pharmacol. 2004]

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#14	Search **HCV and cholesterol and phospholipid** Limits: **Entrez Date to 1999/11/19**	07:20:23	1
#15	Search **HCV and cholesterol and phospholipid and saponin** Limits: **Entrez Date to 1999/11/19**	07:20:16	0
#13	Search **HCV and cholesterol** Limits: **Entrez Date to 1999/11/19**	07:13:06	14
#12	Search **HCV and saponin** Limits: **Entrez Date to 1999/11/19**	07:12:51	0
#11	Search **HCV and saponin-based adjuvant** Limits: **Entrez Date to 1999/11/19**	07:12:42	0
#5	Search **ISCOM** Limits: **Entrez Date to 1999/11/19**	07:10:13	250
#4	Search **ISCOM and HCV** Limits: **Entrez Date to 1999/11/19**	07:10:07	0
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#18	Search **ISCOM and HCV** Limits: **Entrez Date to 2000/11/17**	07:24:13	0
#17	Search **ISCOM and HCV** Limits: **Entrez Date to 2000/08/11**	07:23:57	0
#16	Search Limits: **Entrez Date to 2000/08/11**	07:23:41	12841896
#6	Search **ISCOM and hepatitis** Limits: **Entrez Date to 1999/11/19**	07:21:34	4
#2	Search **ISCOMATRIX** Limits: **Entrez Date to 1999/11/19**	07:21:19	3
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